



**FEATURES**

- Active Power Factor Correction (PFC)
- Meet EN61000-3-2
- High efficiency and reliability
- Low noise and ripple
- Compliant with RoHS directive (EU) 2015/863, WEEE directive 2012/19/EU
- Over voltage and over current protection
- Short circuit and thermal protection
- Resettable power shut down
- Internal 8cm 12Vdc fan
- 100% burn-in, Hi-pot, and ATE tested
- Meet EMI Regulatory; FCC Part 15 Subpart J, Class B 115Vac; CISPR 22 Class B 230Vac
- Safety approvals : UL/CUL60601, TUV 60601, CB, CE, FCC, EMC

**INPUT CHARACTERISTICS**

**Input Range:** 90 ~ 264Vac, Full Range Input

**Frequency:** 47 ~ 63Hz

**Inrush Current:** Cold start no damage

**Maximum Input Line Current:**

Model	115 Vac	230 Vac
FSP500M-80PA	8A	4A

**OUTPUT CHARACTERISTICS**

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Ripple & Noise
+3.3V	0A	20.0A	± 5%	50mV P-P
+5V	0A	20.0A	± 5%	50mV P-P
+12V1	0A	16.0A	± 5%	120mV P-P
+12V2	0A	16.0A	± 5%	120mV P-P
+12V3	0.1A	16.0A	± 5%	120mV P-P
-12V	0A	0.5A	± 10%	120mV P-P
-5V	0A	0.2A	± 10%	100mV P-P
+5Vsb	0A	3.0A	± 5%	50mV P-P

\* The +3.3V and +5V total output shall not exceed 120W.

\* The +12V1, +12V2, and +12V3 total output shall not exceed 41A.

**FSP500M-80PA**

**500 Watts 1U ATX Medical Grade**

**(80 PLUS GOLD, Haswell, RoHS Compliant)**



**GENERAL SPECIFICATIONS**

- **Operating Temperature:** 0°C ~ +50°C
- **Storage Temperature:** -40°C ~ +80°C
- **Operating Humidity:** 85% RH, Non-condensing
- **Storage Humidity:** 95% RH, Non-condensing
- **Efficiency:** Typical load > 90%
- **Leakage Current:** < 0.3mA at 264Vac, 50Hz
- **Rise time:** 20ms Maximum
- **Hold-up Time:** 17 ms Minimum at 100% load
- **Dielectric Withstand:** 1800Vac for 2 second
- **Power Good Signal:** Power on delay time 100 ~ 500ms, off delay 1ms minimum (TTL and CMOS compatible)
- **MTBF:** > 100,000 hours at 100% load, 25°C
- **Dimensions:** 220mm (L) x 100mm (W) x 41mm (H)